

ABSTRACT

THE INFLUENCE OF MODULE TO STUDENT ACHIEVEMENT ON COMPETENCY STANDARD EXPLAIN MATERIAL STRENGTH AND MACHINE COMPONENT ON MECHANICAL ENGINEERING PROGRAM AT SMK N 2 YOGYAKARTA

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The purpose of this research are 1) To know student achievement on competency standard explain material strength and machine component on mechanical engineering program at SMK N 2 Yogyakarta, 2) To know the influence of module to student achievement on competency standard explain material strength and machine component on mechanical engineering program at SMK N 2 Yogyakarta.

This research can be classified as a *quasi experimental design* with *nonequivalent control group design* model. The population in this research were students in grade 3 on mechanical engineering program at SMK N 2 Yogyakarta with 190 students consisting of 6 classes and samples of the research was the students 3M1 and 3M2 class with 66 students. The sampling technique was using *cluster random sampling*. Data obtained from the initial score (*pretest*) and end score (*posttest*). Data were analyzed with comparative statistical technique with t-test two sample *independent*.

The results showed that 1) Student achievement who were given treatment module has an average score of 80.12 and student achievement that without treatment module has an average score of 76.48; 2) There are differences in student achievement significantly between class who were treated module with a class without treatment module shown by the results of hypothesis testing (t-test) with t greater than t table ($2.086 > 2.000$).